

CLAIMS

1. A fuel cell system comprising at least one unit of fuel cells and auxiliary soluble metal anode batteries for producing hydrogen gas by dissolution of a soluble metal in an electrolyte.

2. A fuel cell system comprising fuel cells; an electrolysis system operated under a high pressure to generate hydrogen gas and oxygen gas and adapted to supply these gases to said fuel cells, and an auxiliary power source for supplying an electric power to said electrolysis system.

3. The fuel cell system according to claim 2, wherein said auxiliary power source is metal anode batteries.

4. The fuel cell system according to claim 3, wherein said metal anode batteries generally comprises soluble metal anodes and insoluble cathodes separated one another by separators and arranged in a casing or tank containing an electrolyte.

5. The fuel cell system according to claim 2, wherein said auxiliary power source is wind power generators.

6. The fuel cell system according to claim 2, wherein said auxiliary power source is solar battery system.

7. The fuel cell system according to claim 2, wherein said an electrolysis system is a high pressure electrolysis system.